BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KAMAKSHAMMA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 30.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	Removing B.S. slab of Drain and stacking.(P No.25 / I N 5.32)								
	for Drain	Sqm							
	Kamakshamma Layout (W/S)		2	40.00	0.75		60.00		
			1	20.00	0.60		12.00		
	Main Road (E/S)		2	101.00	0.90		181.80		
	7th Cross Road		2	100.00	0.60		120.00		
	6th Cross Road		2	47.00	0.75		70.50		
			1	44.00	0.75		33.00		
							477.30	65.72	31368.16
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	65.72							
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)								
	Desilting for Drain	Cum							
	Kamakshamma Layout (W/S)		2	38.00	0.60	0.60	27.36		
			1	26.00	0.60	0.60	9.36		
	Main Road (E/S)		2	101.00	0.60	0.60	72.72		
	7th Cross Road		2	100.00	0.60	0.60	72.00		
	6th Cross Road		2	47.00	0.60	0.60	33.84		
			2	44.00	0.60	0.65	34.32		
							249.60	86.92	21695.23
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	86.92							
3	KSRRB M200-24:- dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces no exceeding 0.02 Cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials separately complete as per specifications. MORTH specifications. No. 202, (P.No. 138/ Item No. 18.47)								
		Cum							
	6th Cross Road K.Lyt (W/s)		1	45.00	5.50	0.20	49.50		
	Cross Road of 6th Cross Road		1	25.00	3.60	0.20	18.00		
	Main Road (E/S) Kamakshamma Lyt		1	105.00	5.50	0.20	115.50		
	7th Cross Road		1	103.00	3.50	0.20	72.10		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
							255.10	827.86	211187.09
	Basic Rate	781.00							
	Area Weightage @ 6%	46.86							
	Total	**827.86**							
4	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
		Cum							
	6th Cross Road K.Lyt (W/s)		1	45.00	5.50	0.30	74.25		
	Cross Road of 6th Cross Road		1	25.00	3.60	0.30	27.00		
	Main Road (E/S) Kamakshamma.Lyt		1	105.00	5.50	0.25	144.38		
	7th Cross Road		1	103.00	3.50	0.25	90.13		
							335.75	166.42	55875.52
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
5	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
				Qty Vide Item No.2+3+4			840.45	100.00	84045.00
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Total	**100.00**							
6	**Refixing stone slabs** of drains and pointing in C.M.(1:3)(P.No.25/I.No.5.33)								
		Sqm							
				80% of Qty Vide Item No.1			381.84	80.56	30761.03
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
7	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20** mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for Drain covering slab			*20% of Qty Vide Item No.1*			95.46		
							95.46	2100.00	200466.00
	Data Rate	2100.00							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
8	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	for road	Cum							
	6th Cross Road K.Lyt (W/s)		1	45.00	5.50	0.15	37.13		
	Cross Road of 6th Cross Road		1	25.00	3.60	0.15	13.50		
	Main Road (E/S) Kamakshamma.Lyt		1	105.00	5.50	0.15	86.63		
	7th Cross Road		1	103.00	3.50	0.15	54.08		
							191.33	5159.02	987049.50
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
9	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
	for road	Cum							
	6th Cross Road K.Lyt (W/s)		1	45.00	5.50	0.125	30.94		
	Cross Road of 6th Cross Road		1	25.00	3.60	0.125	11.25		
	Main Road (E/S) Kamakshamma.Lyt		1	105.00	5.50	0.125	72.19		
	7th Cross Road		1	103.00	3.50	0.125	45.06		
							159.44	6231.74	993573.05
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
10	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	for road	Sqm							
	6th Cross Road K.Lyt (W/s)		1	45.00	5.50		247.50		
	Cross Road of 6th Cross Road		1	25.00	3.60		90.00		
	Main Road (E/S) Kamakshamma.Lyt		1	105.00	5.50		577.50		

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		1	44.00	3.50		154.00		
						1517.50	95.40	144769.50

Basic Rate 90.00
Area Weightage @ 6% 5.40
Total 95.40

Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)

for road

	m					
Kamakshamma Layout (W/S)	4	6.00	5.5	24.00	22	
	3	2.50	3.6	7.50	10.80	
Main Road (E/S)	10	6.00	5.5	60.00	55.00	
7th Cross Road	10	3.00	5.5	30.00	55.00	
8th Cross Road	6	3.50	3.5	17.50	21.00	
	4	3.50		14.00	108.00	
				153.00	121.90	18650.70

Basic Rate 115.00
Area Weightage @ 6% 6.90
Total 121.90

9% for KRIDL Charges	Sub-Total Amount	2750239.00
Miscellaneous and unforeseen charges	LS	247522.00
		2239.00
	Grand Total Amount	3000000.00

(Rupees Thirty Lakhs Only)

CERTIFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW.P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

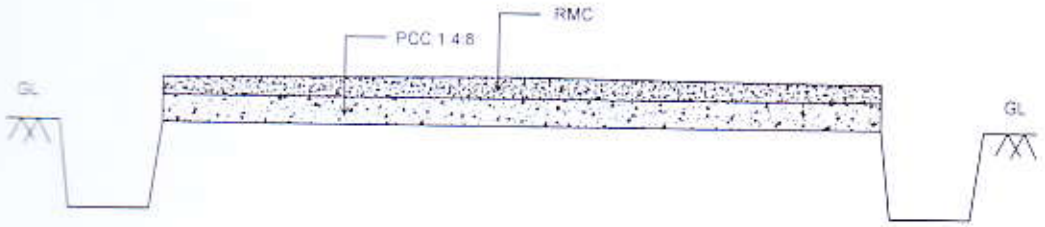
Administrative Approval
Accorded For 30.00 lakh Rs
Head of A/C P3172
CER NO : 239 Dt:.. 31/03/17

TA CE (YNK)

Technical Sanction
Accorded For 30.00 lakh Rs.
Head of A/C P3172
CER NO : 212 Dt:.. 31/03/17

TA CE (YNK)

AME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KAMAKSHAMMA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION



TYPICAL CROSS SECTION OF CC ROAD

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

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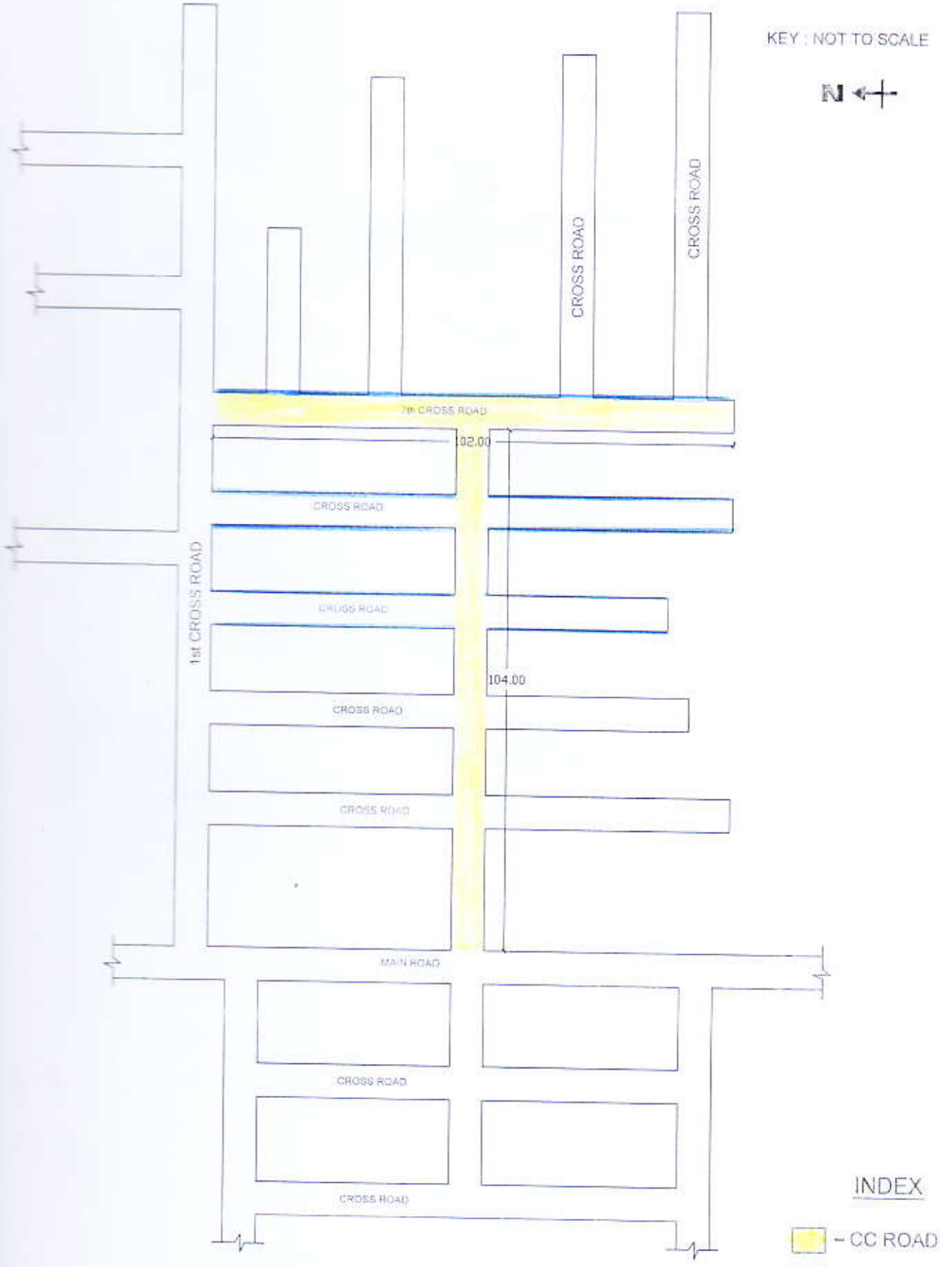

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT KAMAKSHAMMA LAYOUT WESTERN SIDE CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

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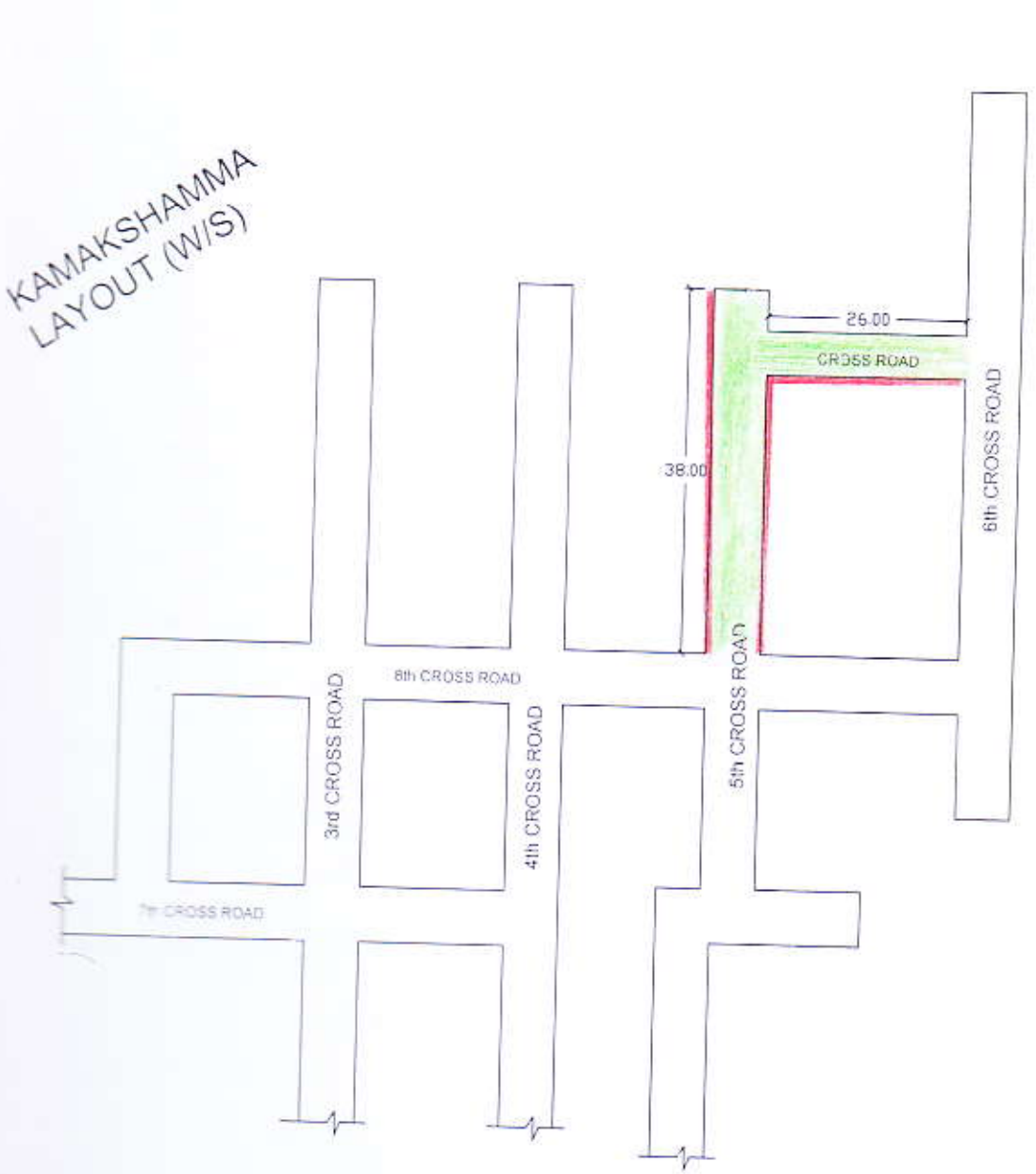

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Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division

BELAHANKA ZONE
WARD 2-CHOWDESHWARI WARD